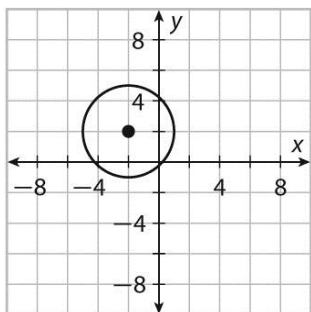# MODULE 12 Quadratic Relations and Systems of Equations
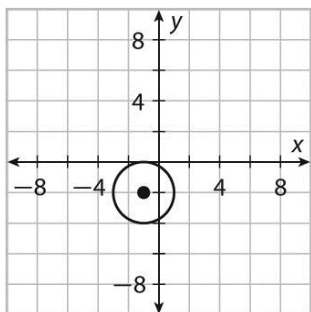
LESSON 12-1

Practice and Problem Solving: A/B

1. $(x - 8)^2 + (y - 9)^2 = 100$

2. $(x + 1)^2 + (y - 5)^2 = 625$

3. $(x - 2)^2 + (y - 2)^2 = 25$

4. $(x - 3)^2 + (y + 5)^2 = 356$

5. $(x + 3)^2 + y^2 = 36$

6. $(x - 6)^2 + (y + 1)^2 = 64$

7. $(x + 2)^2 + (y - 2)^2 = 9$
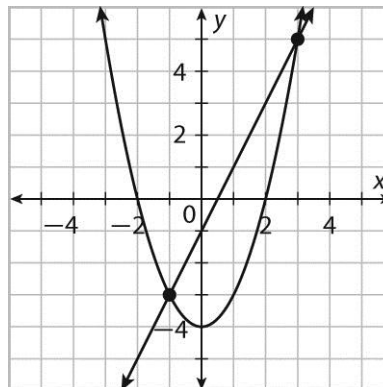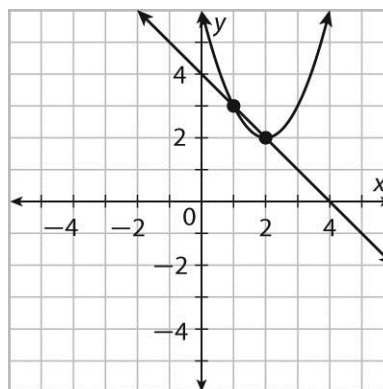

8. $(x + 1)^2 + (y + 2)^2 = 4$

9. *D, E, F*

LESSON 12-3

Practice and Problem Solving: A/B

1. (3, 5), (−1, −3)

2. (1, 3), (2, 2);

3. (3, 2), (−3, −2)

4. (1, −10), (−1, 10)

5. (9, 12), (−9, −12)

6. (−5, 0), (123, 16)

7. (5, 3), (−3, −5)

8. no solution

9. Yes, a collision would occur after 1.875 sec.